OWNER'S MANUAL

SHU-30

Patent Pending

VERTICAL ACCESS
PLATFORM ATTACHMENT

MAN LIFT®
MFG CO

5707 S. PENNSYLVANIA AVE
CUDAHY, WI 53110
1 (414) 486-1760

INTRODUCTION

The primary purpose of this manual is to provide the user with a thorough understanding of the proper operating procedures necessary to comply with the intended use of the platform attachment.

THIS MANUAL MUST BE RETAINED ON THE UNIT AT ALL TIMES.

Do not attempt to operate the platform attachment and/or the aerial lift with the platform attachment connected until you have read and understood all information provided in this manual. A good understanding of the platform attachment cutoff system, its limitations, and its capabilities will maximize operating efficiency and safety. The various decals attached to this machine contain vital information. Read the decals before operating this machine. Proper installation of this platform attachment is necessary before operation. The instructions in the installation manual must be followed for proper installation.

It is YOUR RESPONSIBILITY to follow safe procedures while operating on the SHU platform attachment. The manufacturer of this unit cannot control the wide range of applications that may be used in carrying out a variety of jobs. Therefore, IT IS THE USER'S RESPONSIBILITY to consider the safety of all personnel when making decisions regarding the unit's intended use.

It is also YOUR RESPONSIBILITY to understand and obey all federal, state, and local regulations regarding the safe operation and use of aerial work platforms.

MAN LIFT MFG. CO. reserves the right to modify, improve, add, and/or delete certain design features of its products without any obligation to incorporate new features into products previously sold. Our manuals are continually updated to reflect these changes.

DO NOT ALTER OR MODIFY THIS UNIT WITHOUT PRIOR WRITTEN APPROVAL FROM THE MANAGEMENT OF MAN LIFT MFG. CO.

The manufacturer recommends that replacement parts be purchased only through MAN LIFT MFG. CO. in order to ensure the original integrity of the product. Only trained and qualified personnel should make repairs and adjustments. Please refer to the Service section of this manual for information on service and maintenance of the platform attachment.

If you need assistance or have any service or maintenance questions, Man Lift Mfg. Co. personnel are always available by phone or fax. The telephone numbers are:

1 (414) 486-1760 Telephone
1 (414) 486-1763 Fax

Serial Number Range	G0003-G0102

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MAN LIFT MFG. CO.
LIMITED WARRANTY

Man Lift Mfg. Co. warrants to the purchaser that each new SHU vertical access platform attachment made by Man Lift Mfg. Co. is free from defects in material and/or workmanship arising under normal use and service for a period of one (1) year after the original shipment of the platform attachment from the plant of Man Lift Mfg. Co.

Any obligation and liability under this Warranty is expressly limited to repairing or, at Man Lift Mfg. Co.'s option, replacing free of charge at its factory in Cudahy, WI or at an authorized repair facility designated by Man Lift Mfg. Co., the defective part. In no event shall Man Lift Mfg. Co. or its suppliers be liable to the purchaser or any other person for transportation charges or for any incidental, collateral, special, or consequential damages, including without limitation damages for loss of profits, loss of customers, loss of goodwill, or work stoppage, claims by any party other than the purchaser, or any other similar damage or loss even if Man Lift Mfg. Co., its suppliers, or its representatives have been advised of the possibility of such damages.

Parts claimed to be defective and for which repair or replacement is desired shall be returned transportation **prepaid** to the Man Lift Mfg. Co. factory for inspection. This Warranty applies to replacement parts provided under the terms of this Warranty only for the remainder of the Warranty period applicable to the original purchase.

Any operation of the equipment beyond rated capacity, improper use or application of the platform attachment, substitution upon it of parts not approved by Man Lift Mfg. Co. or alteration or repair of the platform attachment by any person not authorized by Man Lift Mfg. Co. shall, at Man Lift Mfg. Co.'s option, void this Warranty. Man Lift Mfg. Co. shall have no liability or responsibility for damages resulting from any malfunction of equipment and components not supplied by Man Lift Mfg. Co.

No agent, employee, distributor, dealer, or other representative of Man Lift Mfg. Co. is authorized to modify this Warranty in any way. Accordingly, additional statements or presentations by any such representative, whether oral or written, do not constitute warranties by Man Lift Mfg. Co. and should not be relied upon as limited warranties of Man Lift Mfg. Co. and no attempt, effort, or promise to repair equipment by Man Lift Mfg. Co. or any such representative at any time shall modify or extend this Warranty in any way. If the purchaser has used its own order form, Man Lift Mfg. Co. will honor no additional or different warranty terms contained in the purchaser's form. This Warranty covers only new and unused SHU vertical access platform attachments manufactured by Man Lift Mfg. Co. Products or parts manufactured by others are covered only by such warranties as are extended to the purchaser by Man Lift Mfg. Co.'s suppliers.

This Warranty is in lieu of all other warranties, expressed or implied, including but not limited to warranties of merchantability and fitness for a particular purpose.

1. SAFETY

SAFETY SYMBOLS

This manual is designed to provide you with the information and instruction to properly install, operate and maintain your MAN LIFT MFG. CO. SHU-30 platform attachment. Your failure to read, understand and follow all safety rules, warnings and instructions will unnecessarily expose you and others to dangerous situations. For your safety and the safety of those around you, you must operate and maintain your platform attachment as instructed in this manual.

The MAN LIFT MFG. CO. SHU-30 vertical access platform attachment is designed and built to provide many years of safe, dependable service. To obtain full benefits from your SHU-30, always follow the proper operating and maintenance procedures. Only trained, competent personnel should be allowed to operate or service this unit.

To help you recognize important safety information, we have identified warnings and instructions that directly impact on safety with the following signals:

"DANGER" INDICATES AN IMMINENTLY HAZARDOUS SITUATION, WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.

"WARNING" Indicates a Potentially Hazardous Situation, Which, if not Avoided, Could Result in Death or Serious Injury.

"CAUTION" Indicates a Potentially Hazardous Situation, Which, if not Avoided, May Result In Minor or Moderate Injury.

One final note: ***The best method to protect yourself and others from injury or death is to use common sense. If you are unsure of any operation, DO NOT start until you are satisfied that is safe to proceed.***

SAFETY RULES AND PRECAUTIONS

- **APPROVED SAFETY HARNESS MUST BE WORN AT ALL TIMES WHILE OPERATING THE AERIAL LIFT WITH THE SHU VERTICAL ACCESS PLATFORM ATTACHMENT CONNECTED.**

- **DO NOT EXCEED THE AERIAL LIFT PLATFORM CAPACITY IN ANY CONFIGURATION.**

- **DO NOT EXCEED THE SHU VERTICAL ACCESS PLATFORM ATTACHMENT CAPACITY IN ANY CONFIGURATION**

- **DO NOT SIT, STAND OR CLIMB ON THE RAILS OF EITHER THE SHU VERTICAL ACCESS PLATFORM ATTACHMENT OR AERIAL LIFT PLATFORM**

- **Please read and understand all safety rules and precautions in the aerial lift manufacturer's manual. Unless specified below, all safety rules and precautions that apply to the aerial lift apply to the lift with the platform attachment installed.**

- **Modifications of this platform attachment from the original design and specification without written permission from Man Lift Mfg. Co. is strictly forbidden. A modification may compromise the safety of the aerial lift, subjecting users to serious injury or death. Any such modification will void any remaining warranty.**

- **Read and understand all safety and control information found on the aerial lift, the platform attachment and in this manual before operating the unit.**

- **Only trained, competent personnel should operate the platform attachment and aerial lift.**

- **Be aware of all Government and Local rules that may apply to the platform attachment and its safe operation.**

- **Approved headgear and other protective equipment must be worn as required. (In the USA, OSHA approved equipment is required. For other countries, the appropriate equivalent government body should be consulted).**

- **NEVER fasten safety harness to an adjacent structure while on the work platform attachment.**

- **DO NOT disable the limit switches.**

- **DO NOT raise, lower or drive the lift while an operator is in the platform attachment with the rails down**

- **DO NOT operate the lift from inside the platform attachment. If the lift is to be operated while someone is in the platform attachment, it should be done by an operator on the aerial lift platform, and only with the platform attachment rails in the raised and locked position.**

- **Operating this equipment without all safety and control decals in place can be hazardous.**

- **Complete the "Operational Checklists" found in this manual (see Table of Contents) at designated intervals.**

- **Complete the maintenance found in the aerial lift manual at designated intervals.**

- **DO NOT exceed the maximum platform attachment horizontal pull of 100 lbs. (341 kg).**

- **DO NOT use the platform attachment as a crane to lift oversized or hanging loads.**

2. INSTALLATION

UNLOADING

- Remove packaging.
- Inspect the unit for damage. Inspect all railings, switches and cables for chafing or road damage.
- Remove all machine tie downs.
- Before installing the platform attachment onto the aerial lift, all operators must read and understand the contents of this Operator's Manual.
- To install the platform attachment onto the aerial lift, please see the Installation Manual for installation procedure.

INSTALLATION PARTS

PART NUMBER	DESCRIPTION	QTY
F0137518	SCREW, HHC, 3/8-16 X 2	4
F0137519	SCREW, HHC, 3/8-16 X 2.25	4
F33622	WASHER, LOCK, .375	8
F0137514	SCREW, HHC, 3/8-16 X 1	2
F33082	WASHER, FLAT, SAE, 3/8	4
F37575	NUT, NYLOCK, 3/8-16	2
F31823	SCREW, SELF DRILLING, 1/4-14 X 1	2
10825	CONTROL MOUNT ATTACHMENT	1
10873	DECAL, PLATFORM HEIGHT, SHU	1
10874	DECAL, OVERALL CAPACITY, SHU	1

SHU PLATFORM ATTACHMENT INSTALLATION PROCEDURE

1. Check to make sure that all the components that are needed for installation are present.

2. At least 2 people are required for proper installation.

3. Remove the extension deck from the aerial lift platform. Please see aerial lift service manual for instructions on how to remove the platform extension.

4. Retain roller bracket assemblies from the main deck and the extension deck. Set aside to be used later. Remove Platform Control Box and bracket from extension deck (keep mounted to each other) by disconnecting the 6 pin plug and receptacle at the underside of the aerial lift platform and unscrewing fasteners or cutting zip ties (whichever is used).

5. Remove installation parts from platform attachment manual storage box. Set aside to be used later in the installation process.

6. Transfer all items from aerial lift manual storage box (located on the extension deck that was removed in Step 2) to the platform attachment manual storage box.

7. With the railings down and latch bar up, lift the SHU platform attachment using one person on each side of the platform attachment, similar to what is shown in Figure 1.

FIGURE 1

8. Lift the platform attachment onto the top of the main deck of the aerial lift platform, fitting the side channels in between the wear pads of the aerial lift platform, similar to what is shown in Figure 2. Move platform attachment until the inside of the back tube support is 8-9 inches away from the end of the aerial lift platform as seen in Figure 3, and could be slightly tilted.

FIGURE 2

9. Move the platform attachment until the outside of the back tube support is 2 inches away from the end of the aerial lift platform. When moving the platform attachment, it must be lifted another 1-2" to move past the wear pads. The assembly should look like the assembly in Figure 4. With one person supporting the attachment from the side, the other should continue to support the attachment while changing positions to support it from the front. This does not need to be done if a third person is assisting.

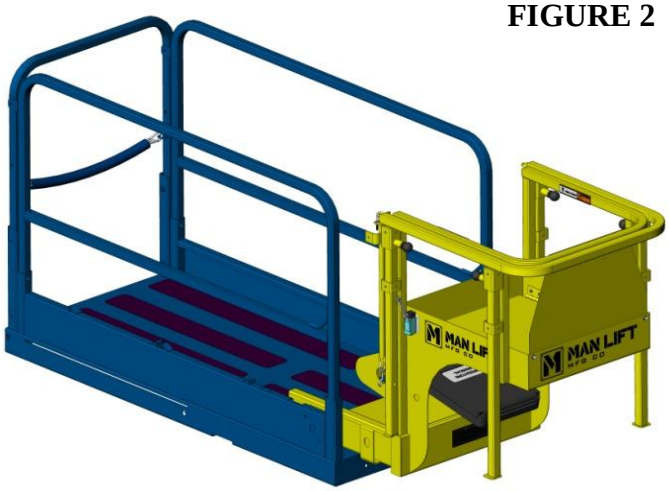


FIGURE 3

FIGURE 4

10. With at least one person supporting the attachment from the front, one person can begin to install the roller brackets using the following steps. Insert platform roller wheels inside the slots provided on the main deck as shown in Figure 5. Insert the roller brackets that were previously bolted onto the side of the extension deck into the locations provided on the platform attachment so that shafts slide into the bores of the wheels as seen in Figure 6. Using parts F0137518 and F33622 provided, fasten the roller brackets onto the platform attachment with a tightening torque of 31 ft-lb. The assembly should look like the assembly in Figure 7.

FIGURE 5

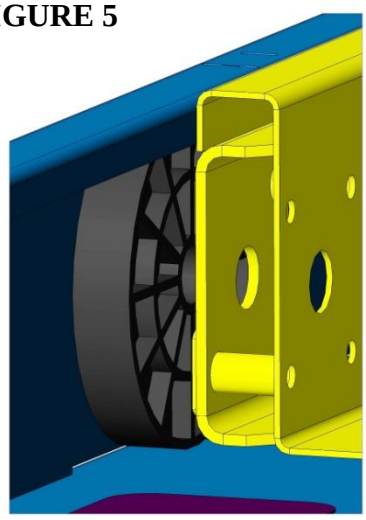


FIGURE 6

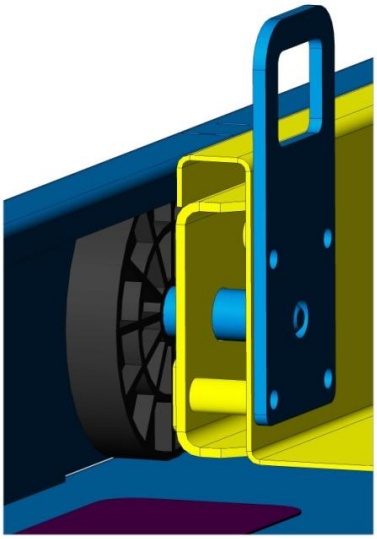
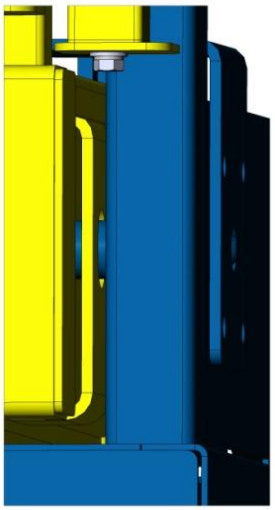


FIGURE 7

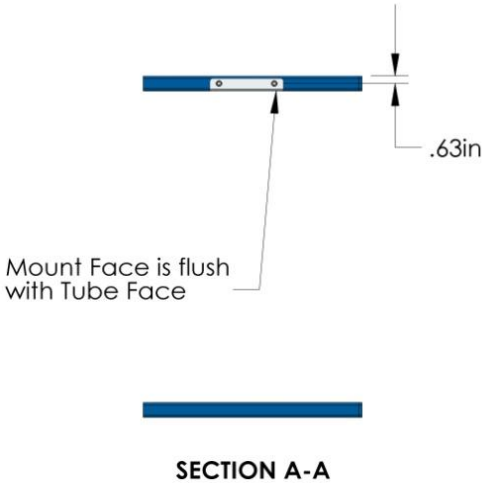
11. Insert the roller bracket shafts at the same location on the main deck as they were when the extension deck was attached. The wheels that were used on these shafts in the previous configuration can be set aside. Adjust the platform attachment so that the shaft of the roller bracket fits inside the vertical slot provided on the platform attachment. See Figure 8. Using parts F0137519 and F33622 provided, fasten the roller brackets onto the sides of the main deck with a torque of 31 ft-lb.

12. Mount bracket (p/n 10825) at the location shown in Figure 9 using the part F31823 provided.



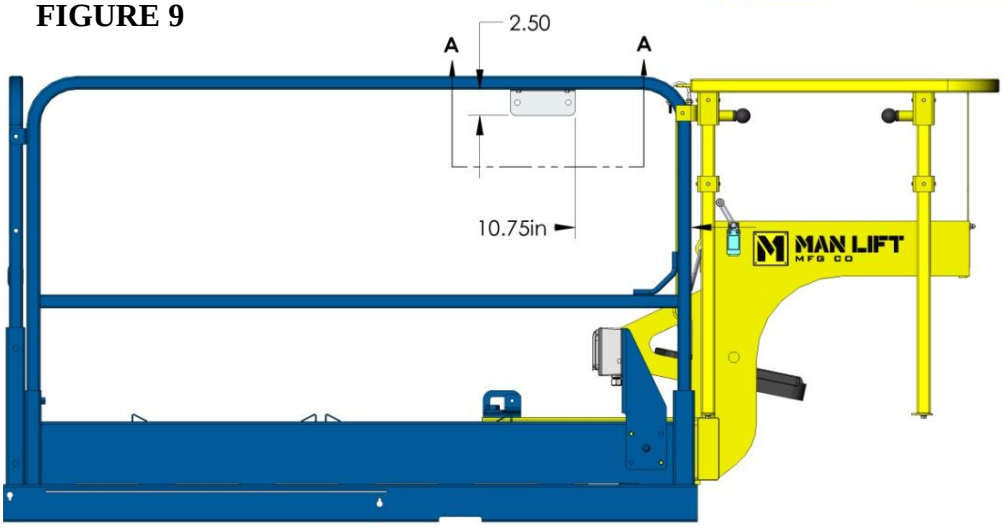
DETAIL D

FIGURE 8



SECTION A-A

FIGURE 9



13. Attach the Platform Control Box and bracket to 10825 as shown in Figure 10 by using the parts F0137514, F33082, and F37575. Run the end of the cable from the control box into the opening shown in Figure 11.

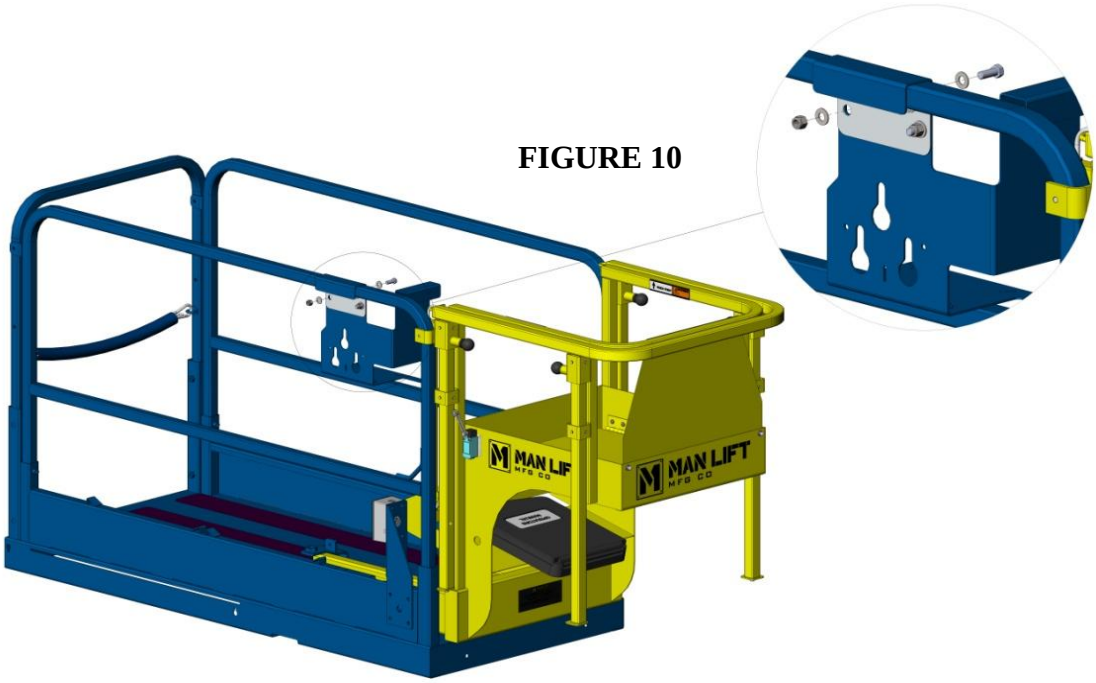


FIGURE 10

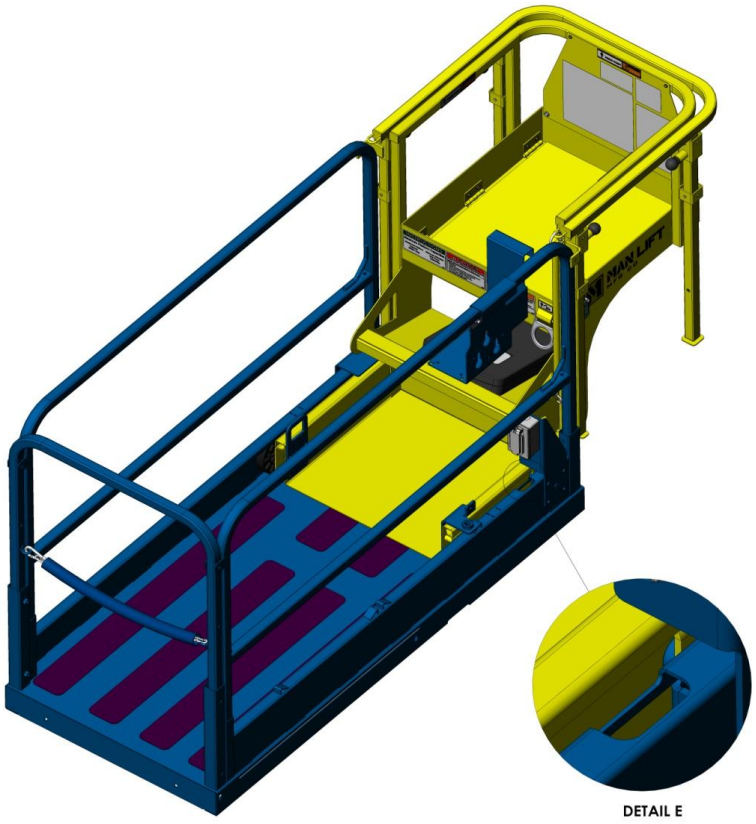


FIGURE 11

14. Disconnect the two 2-pin connectors that are on the same end of the 3-way harness. Insert the end of the 2 pin connectors into the slot shown in Figure 12. Connect the 6 pin receptacle from the platform cable to the plug on the removed harness and connect the 6 socket plug from the cable running up on the scissor to the receptacle on the removed harness. Re-connect the 2 pin connectors to the 3-way receptacle. The wires and connectors should be mounted as shown in Figure 13.

FIGURE 12

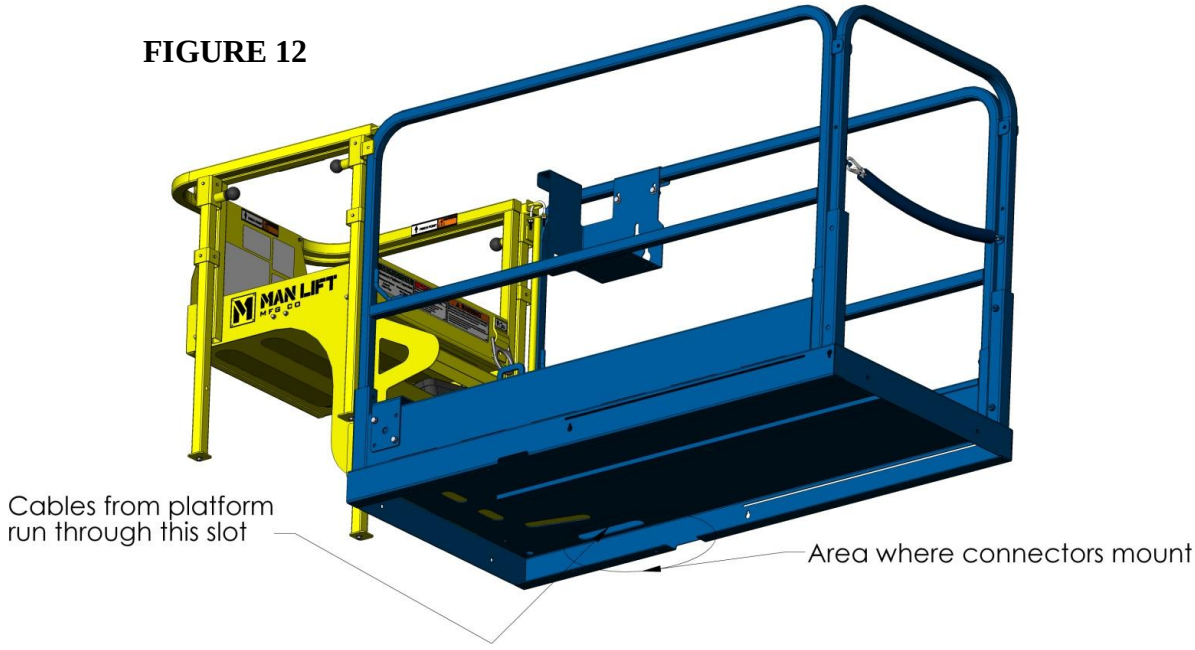


FIGURE 13

15. Attach decals 10873 and 10874 at the location shown in Figure 14.

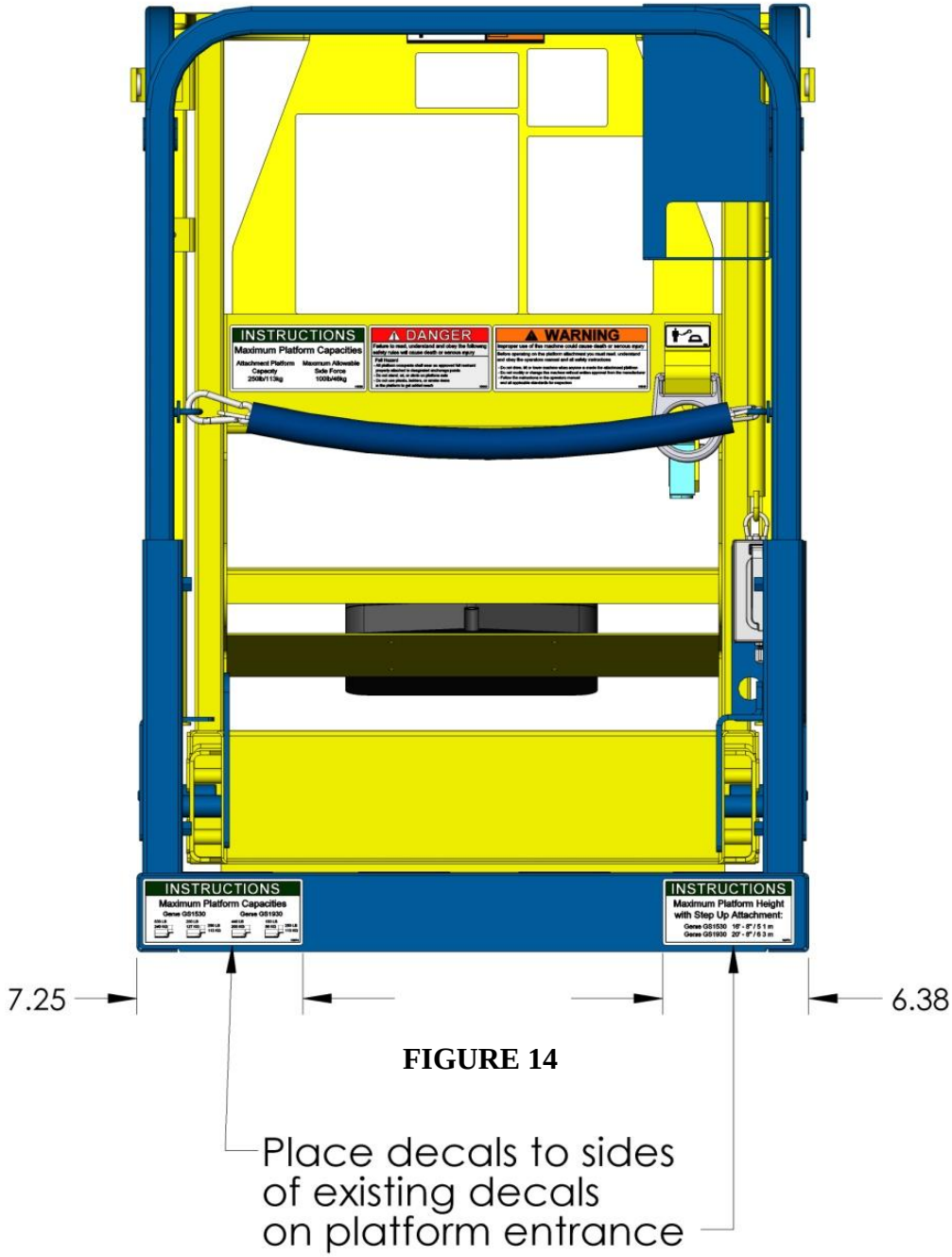


FIGURE 14

16. Perform a shift maintenance inspection before operating.

17. Reverse the process to remove the platform attachment, leaving the decals on the aerial lift platform.

3. OPERATION

Start-Up Procedures/Shift Checks

Before the SHU-30 is put into use each shift, the following checks should be completed, to ensure that the machine is in good, safe operating condition.

- Visually inspect all attachment components for problems such as: missing parts, torn and disconnected wires.
- Check cables for worn areas.
- Check functionality of platform attachment cutoff switch system.
- Decals and Placards Affixed and Legible
- Quick Release Pins Latching Properly

For Service/Maintenance Checklists See Service Manual

GENERAL OPERATION

1. First, in order to operate the platform attachment, ensure that the unit has been installed correctly and that the switches are working properly (see next section).
2. Attach safety harness to the anchorage point at the back toe board of the attachment platform.
3. Use the step and the railing to enter the platform.
4. The railing should only be adjusted to two positions: fully raised and fully lowered. In each position the pins should be fully depressed in the holes of the railing.

⚠ WARNING

There is a pinch point between the sliding rail and the fixed rail when the rail is completely lowered. Be careful when lowering rails to avoid pinching.

5. The railing shall be in the fully raised position unless the operator cannot access a certain area.
6. To raise the railings from the lowered position, pull out the pins and turn 90 degrees to lock. The operator can either
    a. Raise the railing and hold it while the first pin is turned and depressed into the hole then let go of the railing and depress the rest of the pins.
    b. Leave one pin unlocked and raise the railing until that pin fully depresses into the hole in the raised position then depress the rest of the pins.

PLATFORM ATTACHMENT CUTOFF SYSTEM

⚠ WARNING

The operator must ensure that the platform attachment cutoff system is functioning properly before operating.

1. The limit switches on the platform attachment are used with the hinged plate to disable the lift when an operator is inside the platform attachment and the rails are in the lowered position.
2. When the lift is disabled because of this, the Emergency Stop button must be pushed in and held for 5 seconds and then pulled back out to reset operation.

FALL ARREST SYSTEM

⚠ DANGER

APPROVED SAFETY HARNESS MUST BE WORN AT ALL TIMES WHILE OPERATING. THE HARNESS MUST BE CONNECTED TO THE ANCHORAGE POINT SHOWN BELOW WHILE IN THE PLATFORM ATTACHMENT.

The fall arrest system is used to ensure that the operator on the platform attachment is safely secured to the platform attachment so that he or she will not fall during normal operation. The fall arrest system consists of a safety lanyard ring as the anchorage point. This is located on the back toe board of the platform attachment. See picture below.

Harnesses must be used with the fall arrest system. The length of the lanyard is 48".

⚠ CAUTION

If an operator does fall when connected to the platform attachment anchorage point, the weldments and anchorage must be inspected by a qualified Man Lift Manufacturing Company employee before further use.

THIS FALL ARREST SYSTEM:

- **Complies with OSHA 1926.502(d) 1926 Sub-Part M App C**
- **Is to be used with full body harness and shock absorbing or retractable lanyard**
- **Max capacity is 250 pounds (with tools)**
- **Only one person can be connected at a time**
- **Do not use if visible damage is noted, call 414-486-1760**

4. SERVICE

SERVICE & MAINTENANCE

Many of the parts used in the manufacturing of the SHU-30 platform attachment have specific properties, and the manufacturer recommends that replacement parts be purchased only through MAN LIFT MFG. CO. in order to ensure the original integrity of the product.

Technical Service Bulletins will be forwarded to purchaser when applicable as determined by Man Lift Mfg. Co.

MAN LIFT MFG. CO.
SERVICE INFORMATION

If you need assistance or have any service or maintenance questions, MAN LIFT MFG. CO. personnel are always available by phone or fax. The telephone numbers are:

(414) 988-1234 Telephone
(414) 486-1763 Fax

PLATFORM ATTACHMENT CUTOFF SYSTEM

The limit switches on the platform attachment are used with the hinged plate to disable the lift when an operator is inside the platform attachment and the rails are in the lowered position. The limit switches are wired so that if they are both engaged, the e-stop actuates. This disables the machine from driving, lifting or lowering. There are two limit switches. One engages when there is weight in the platform attachment. The other engages when the sliding rails are moved down. Below are some possible causes for the system to malfunction.

- Worn Out Rubber Seal
- Obstruction underneath hinged plate
- Limit Switch Misaligned
- Incorrect wiring
- Loose connection(s)
- Cracks or tears
- Eroded Connection
- Hinged Plate distorted or flexing abnormally

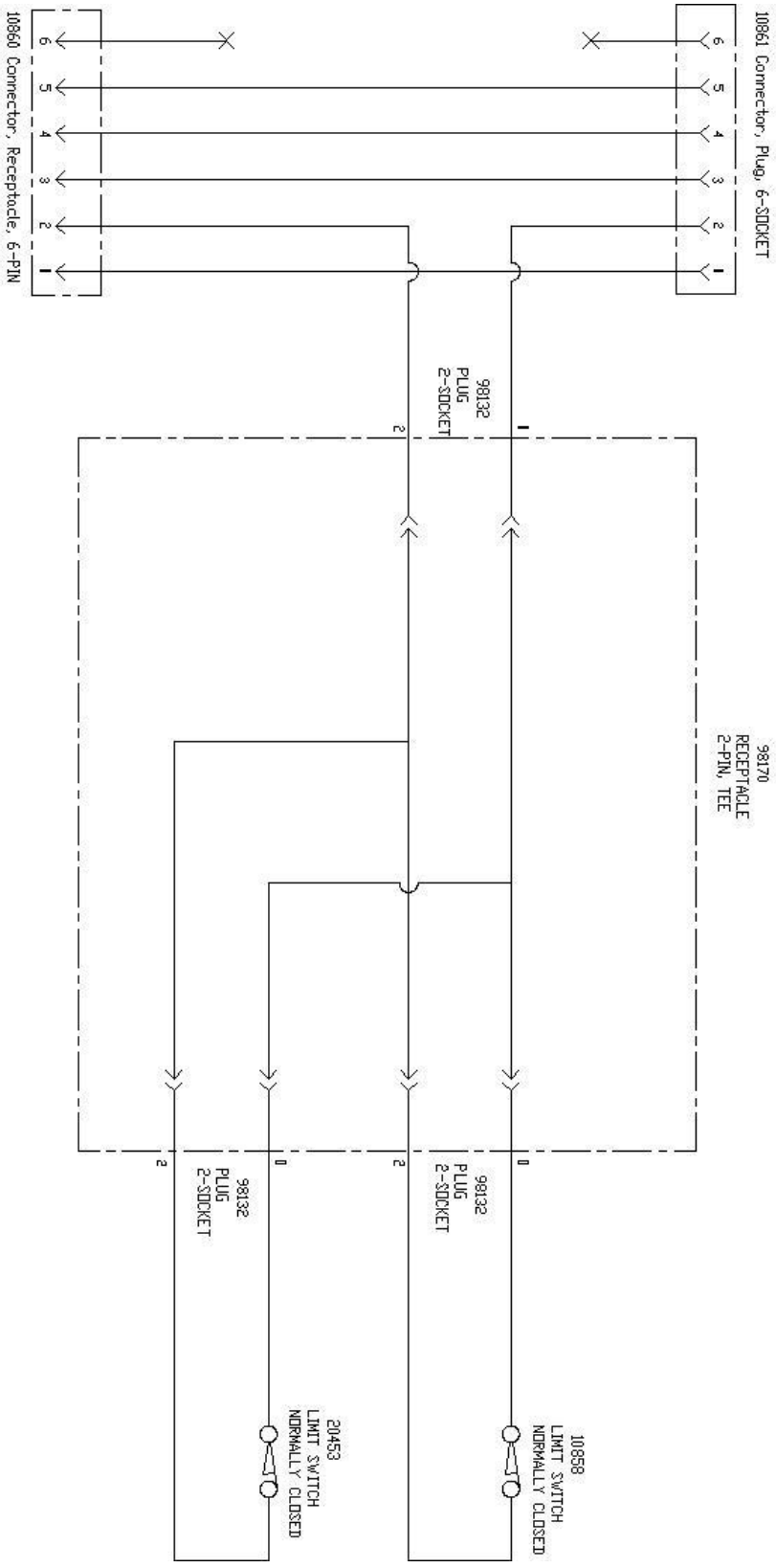
GENERAL MAINTENANCE

Shift Check List	
Machine Serial Number	
Date	
Operator / Inspector Name	
Description of Inspection	Initials
Platform Attachment Assembly	
Decals and Placards Affixed and Legible	
Quick Release Pins Latching Properly	
Platform Attachment Cutoff Function	
Drive Disabled When Platform Attachment Loaded and Rails Down	
Lift/Lower Disabled When Platform Attachment Loaded and Rails Down	
Drive Enabled When Platform Attachment is Unloaded and Rails Down	
Lift/Lower Enabled When Platform Attachment is Unloaded and Rails Down	
Drive Enabled When Platform Attachment is Loaded and Rails Up	
Lift/Lower Enabled When Platform Attachment is Loaded and Rails Down	
Cables and Connectors	
Inspect for Loose or Eroded Connection Between Cable and Cable End	

Weekly Check List	
Machine Serial Number	
Date	
Operator / Inspector Name	
Description of Inspection	Initials
Platform Attachment Assembly	
Check Handrails for Secure Installation	
All Plastic Buttons/Slider Pads In Place	
Clean Out Area Underneath Hinged Floor Plate	
Serial Plates Affixed and Legible	
Folding Bar Latching Properly	
Cables and Connectors	
Verify that the Connections are Tight	
General	
Operators Manual Inside Storage Box	

Annual Check List	
Machine Serial Number	
Date	
Operator / Inspector Name	
Description of Inspection	Initials
Platform Attachment Assembly	
Check Handrails for Secure Installation	
Decals and Placards Affixed and Legible	
All Plastic Buttons/Slider Pads In Place	
Clean Out Area Underneath Hinged Floor Plate	
Serial Plates Affixed and Legible	
Folding Bar Latching Properly	
Inspect Rubber Seals and Replace if Not Compressing Properly	
Platform Attachment Cutoff Function	
Drive Disabled When Platform Attachment Loaded and Rails Down	
Lift/Lower Disabled When Platform Attachment Loaded and Rails Down	
Drive Enabled When Platform Attachment is Unloaded and Rails Down	
Lift/Lower Enabled When Platform Attachment is Unloaded and Rails Down	
Drive Enabled When Platform Attachment is Loaded and Rails Up	
Lift/Lower Enabled When Platform Attachment is Loaded and Rails Down	
Cables and Connectors	
Inspect for Cracks, Tears, or Other Damage	
Verify that the Connections are Tight	
Inspect for Loose or Eroded Connection Between Cable and Cable End	
Verify That Cables Stay Connected When Lift is at Maximum Height	
General	
Operators Manual Inside Storage Box	

SHU-30 ELECTRICAL SCHEMATIC



5. PARTS

HOW TO ORDER PARTS

1. When ordering parts for your SHU-30 vertical access platform attachment, ensure that you are able to give the model and serial number(s) of all units for which parts are needed. The serial numbers will assist the Man Lift Parts Department in providing the correct parts.

2. If known, please specify the Man Lift part number(s) for the part(s) you require, and always provide a complete description of all parts.

3. Fax orders are preferable, though parts may be ordered by mail, e-mail and telephone.

4. Parts needed for warranty repair must be purchased through Man Lift Parts Department.

5. Man Lift classifies its orders in the following ways:

   Emergency: Top priority. All efforts are made to ship the order the day the order is received; when possible, parts must be pulled off the assembly line.

   Standard: Order to be shipped within a 48-hour period.

   Stock: Order to be shipped within 2 weeks.

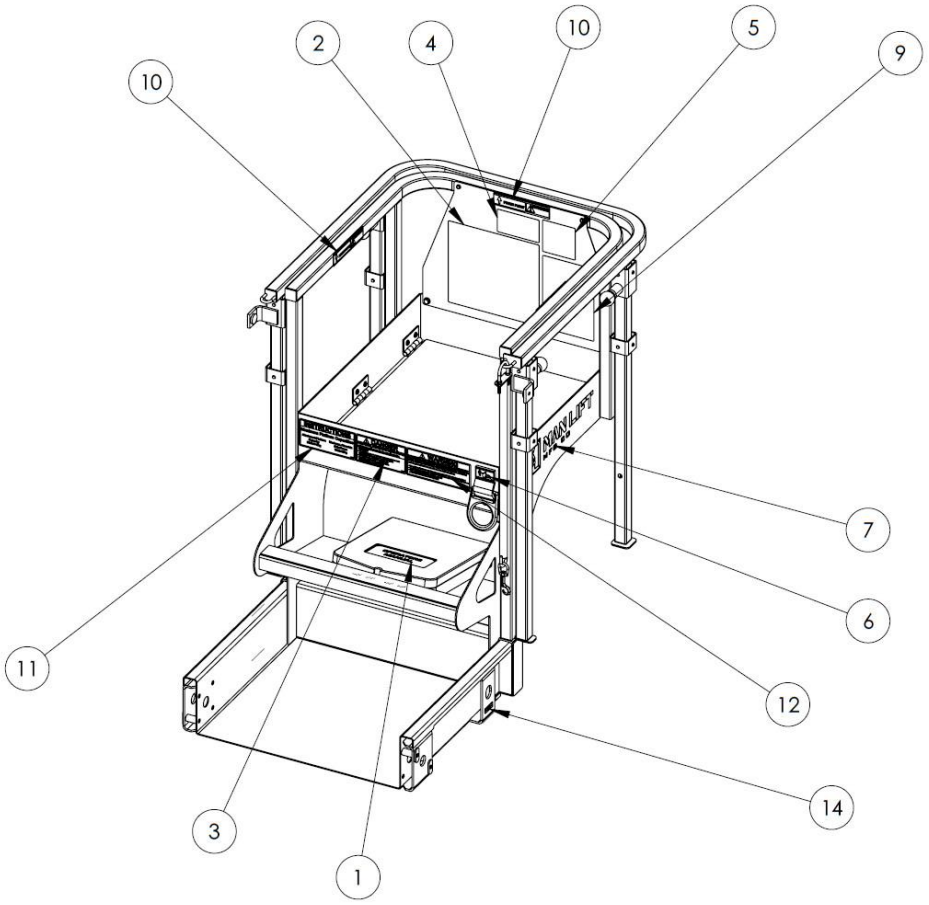
6. Man Lift has a $25.00 Net Minimum billing charge per order.

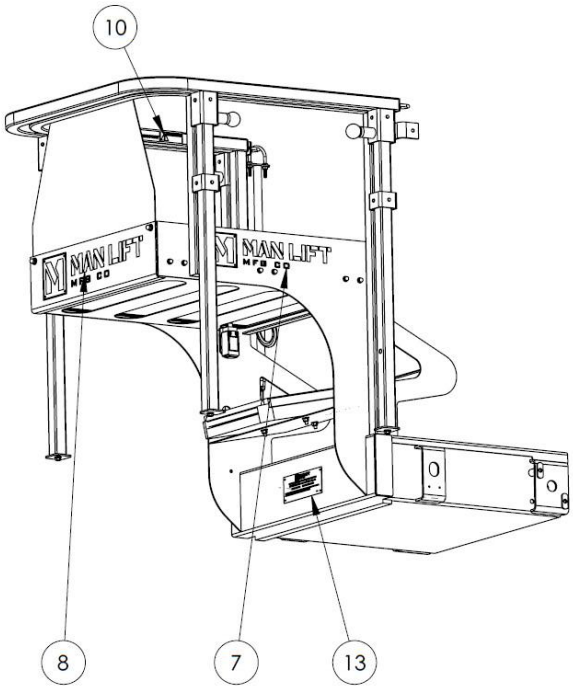
7. All price quotations are valid for 90 days.

8. Parts shown as shipped on the Man Lift packing list and subsequent invoice but not received by the dealer/customer MUST be reported within 10 days after the date shipment. If the parts are still required, a NEW parts order must be submitted. Shortages and discrepancies will be reviewed on an individual basis by the Parts staff and adjustments will be made accordingly.

   Invoice discrepancies regarding incorrect prices or discounts should be reported immediately to the Parts Department. Report the Sales Order Number and invoice number. Your request will be reviewed and adjustments will be made accordingly.

DECALS

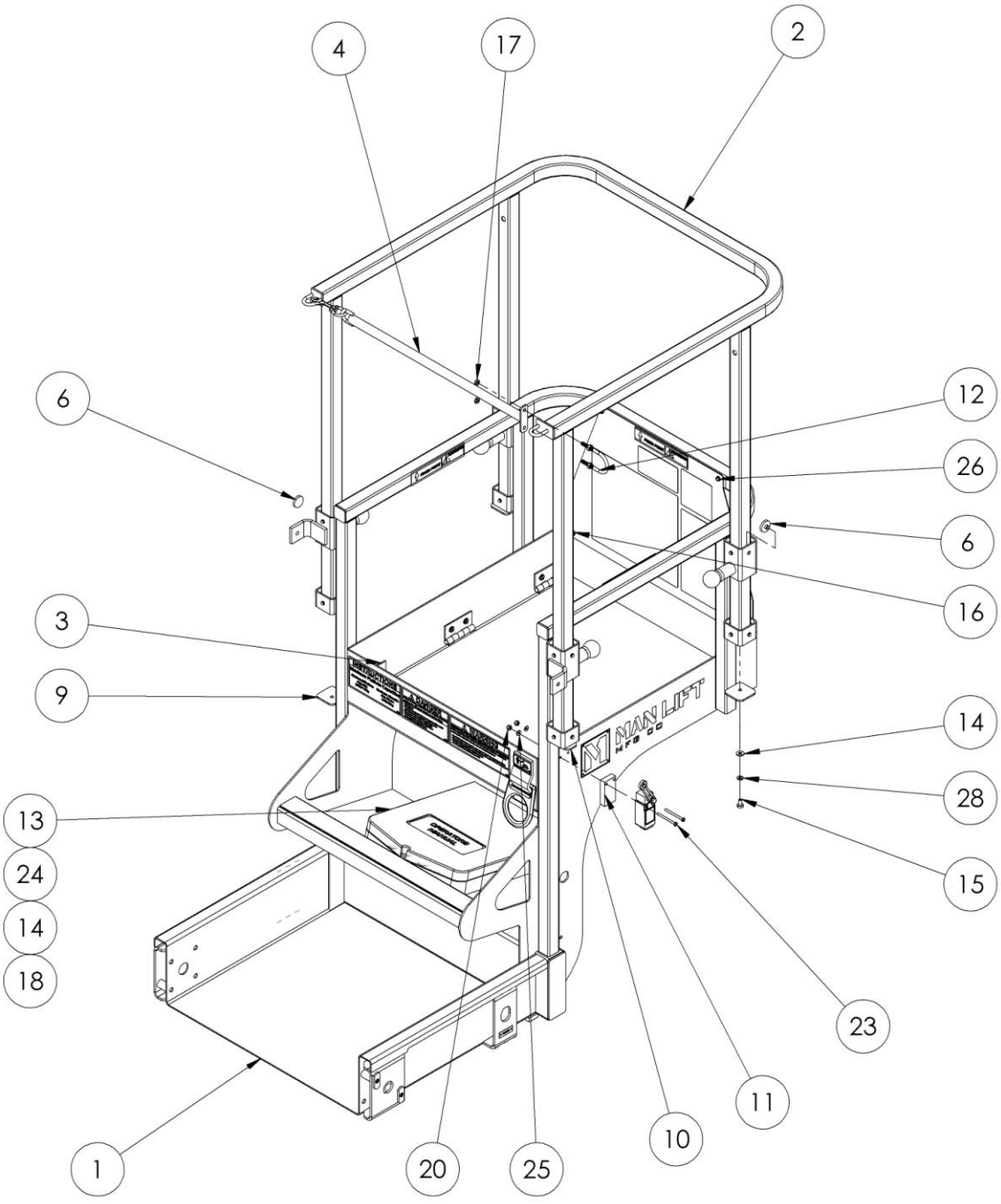




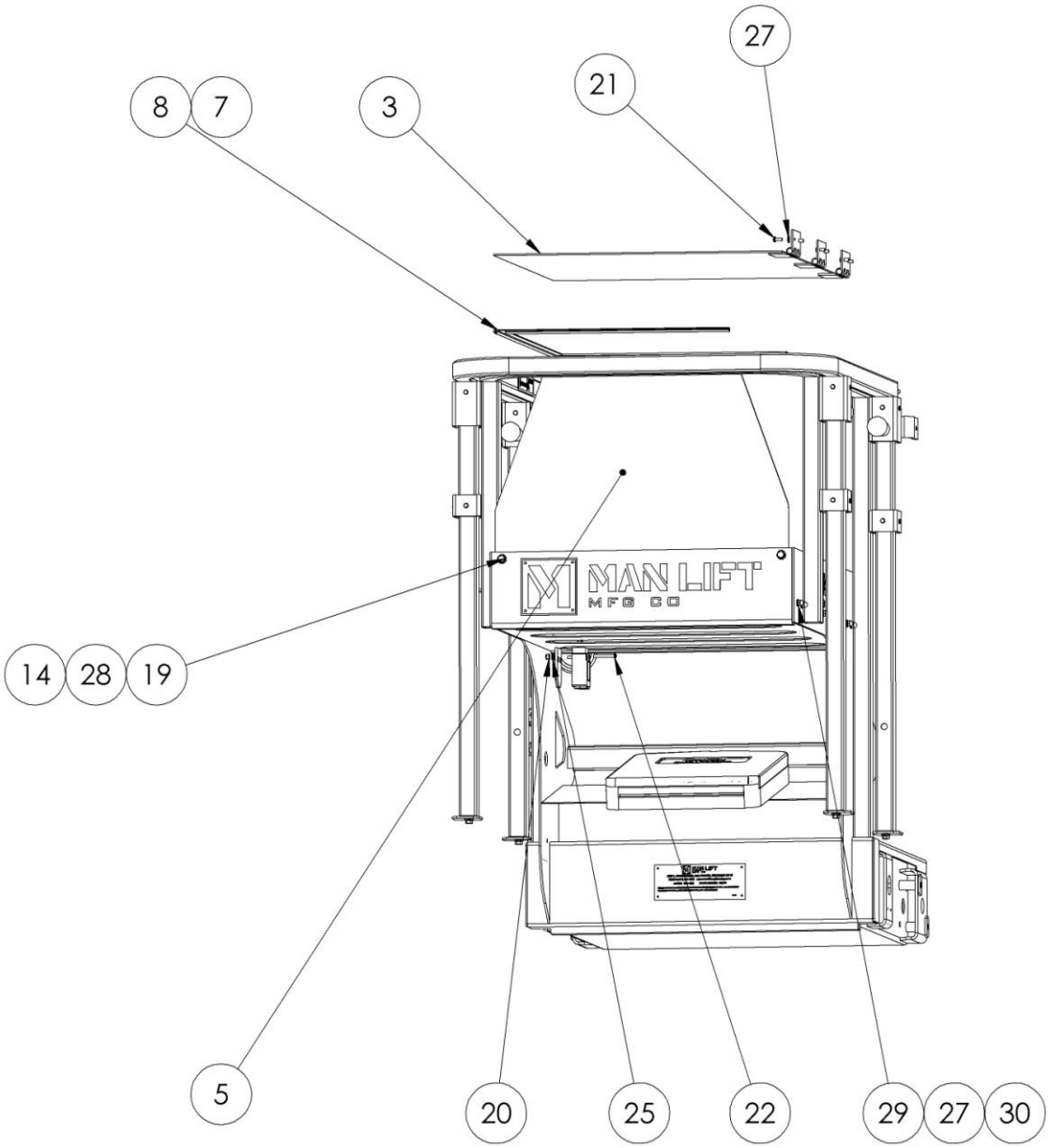
DECALS - BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	27246	DECAL, "OPERATOR'S MANUAL"	1
2	114386	DECAL, DANGER, GENERAL SAFETY	1
3	10848	Decal, Danger, SHU	1
4	44736	DECAL, DANGER, TIP-OVER, TILT	1
5	43618	DECAL, LABEL-DIRECTION ARROWS	1
6	95042	DECAL, Lanyard Attachment 1.00 x 2.0	1
7	95225	DECAL, LOGO, OVERALL, 3.25"	2
8	95227	DECAL, LOGO, OVERALL, 4"	1
9	T107030	DECAL, NOTICE, OPER INST, PCP	1
10	26055	DECAL, PINCH POINT, UP	3
11	10828	Decal, Platform Capacity, SHU	1
12	10849	Decal, Warning, SHU	1
13	10871	PLATE, SERIAL, "SHU-G30"	1
14	10877	PLATE, SERIAL, SMALL "SHU-G30"	1
15	10873	Decal, Platform Height, SHU	1
16	10874	Decal, Overall Capacity, SHU	1

MAIN ASSEMBLY



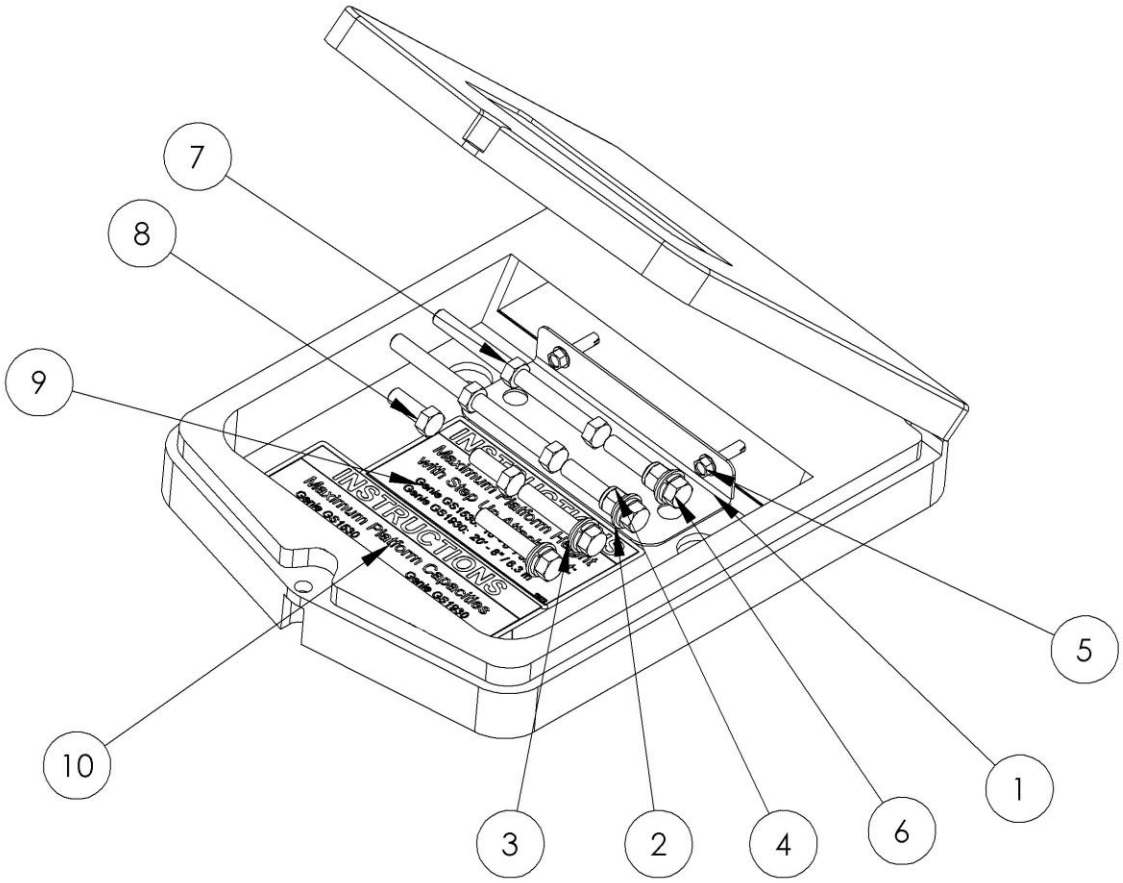
MAIN ASSEMBLY – CONT.



MAIN ASSEMBLY – BILL OF MATERIALS

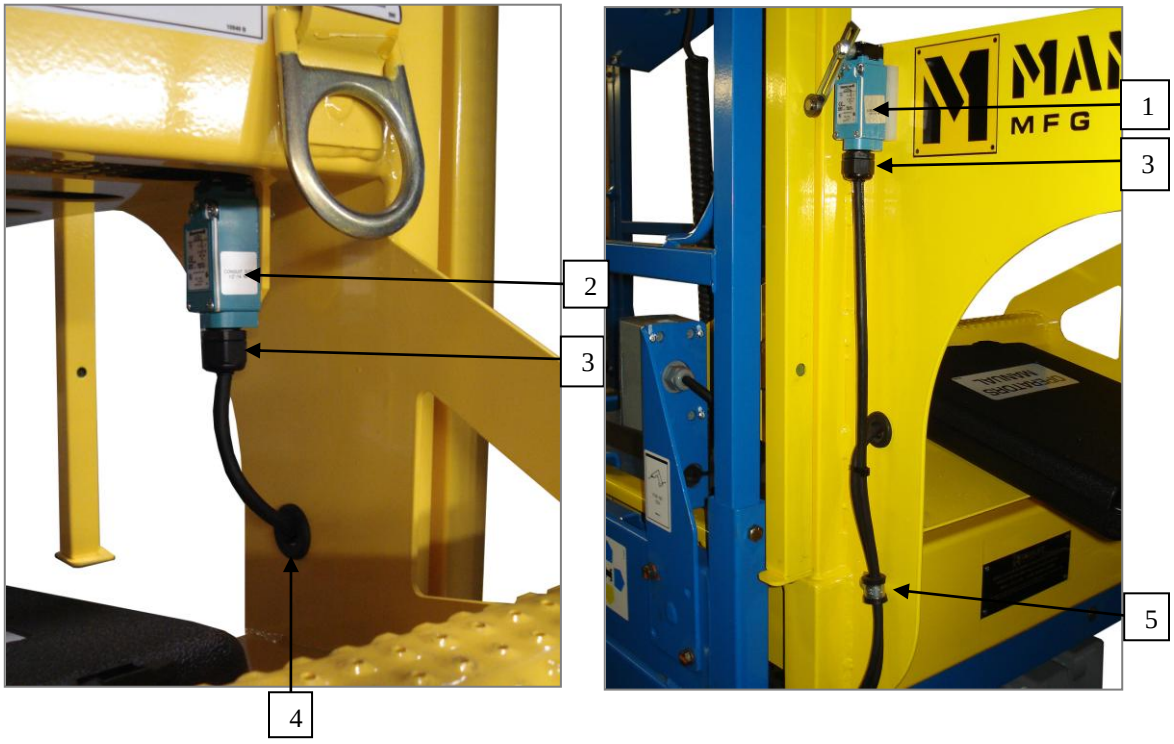
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10801	Step-Up Weldment	1
2	10840	SLIDING RAIL	1
3	10867	Hinged Plate Weldment	1
4	10847	FOLDING RAIL	1
5	10845	Decal Plate	1
6	64409	BUMPER, STEM, PLASTIC	34
7	10863	Bulb Seal 2	2
8	10862-1	Bulb Seal End 2	1
9	10836	BUMPER PLATE	3
10	10870	BUMPER PLATE 2	1
11	10856	Switch Spacer Block	1
12	3043T18	U-BOLT, 1/4-20 X 1-3/8"	1
13	24514	BOX,INSTRUCTION STORAGE	1
14	F33078	FLAT WASHER, 1/4	12
15	F13001	HEX HEAD CAPSCREW, 1/4-20 X 0.50 LONG	4
16	F13002	HEX HEAD CAPSCREW, 1/4-20 X 0.63 LONG	2
17	F36202	HEX JAM NUT, 1/4-20	2
18	F37018	NUT LOCK, NYLOC, 1/4-20	4
19	F37708	Nut, Acorn, 1/4-20	2
20	F37012	NYLOC NUT, #8-32	4
21	F28957	PAN HEAD MACHINE SCREW, #10-24x0.5	6
22	F28913	PAN HEAD MACHINE SCREW, #8-32x1.5	2
23	F28921	PAN HEAD MACHINE SCREW, #8-32x2	2
24	F29174	PAN HEAD MACHINE SCREW, 0.25-20 X 0.75	4
25	F33072	Preferred Narrow FW, #8	4
26	F31812	Screw, Self Drilling, #10-16 x 3/4"	2
27	F33074	WASHER, FLAT, SAE, #10	12
28	F33618	WASHER, LOCK, SPLIT, 1/4"	6
29	F33614	WASHER, SPLIT, LOCK, #10	6
30	F37705	Acorn Nut,#10-24	6

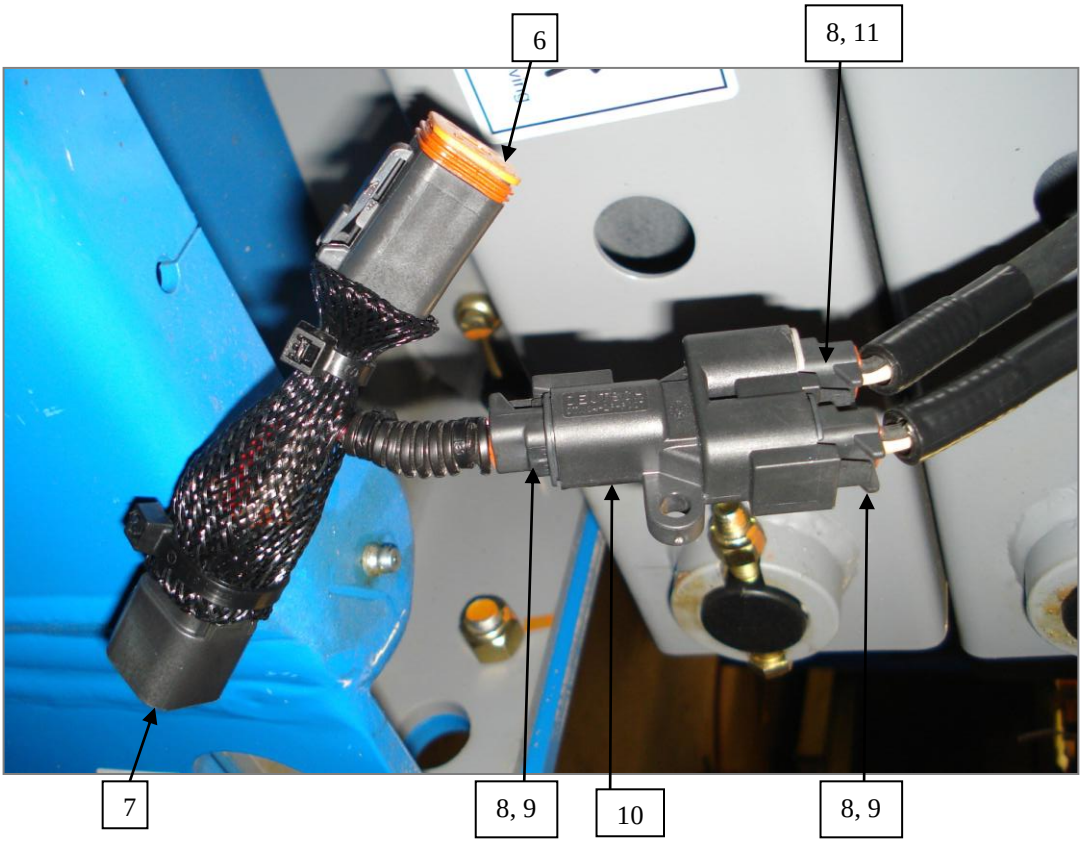
INSTALLATION PARTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10825	Control Mount Attachment	1
2	F33082	WASHER, FLAT, 3/8" SAE	4
3	F33622	WASHER, LOCK, SPLIT, 3/8"	8
4	F37575	NUT, HEX, NYLOC, 3/8-16	2
5	F31823	BOLT, SELF TAPPING, 1/4-14 X 1.00	2
6	F0137518	3/8-16 X 2 HHCS	4
7	F0137519	HEX HEAD CAPSCREW, 3/8-16 X 2.25 LONG	4
8	F0137514	HEX HEAD CAPSCREW, 3/8-16 X 1.00 LONG	2
9	10873	Decal, Platform Height, SHU	1
10	10874	Decal, Overall Capacity, SHU	1

ELECTRICAL





ELECTRICAL – BILL OF MATERIALS

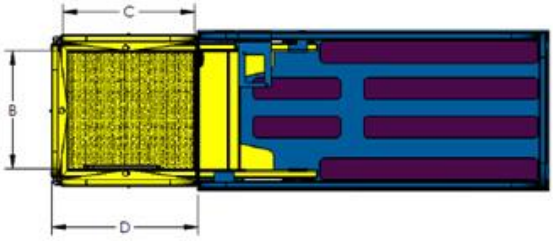
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	10858	LIMIT SWITCH, ADJ ROLLER ARM	1
2	20453	LIMIT SWITCH, ROLLER PLUNGER	1
3	34459	STRAIN RELIEF, PLASTIC, 1/2 NPT	2
4	9600K55	GROMMET, RUBBER	1
5	25110	CABLE CLAMP 5/8" - 1/2" WIDE	1
6	10861	CONNECTOR, PLUG, 6-SOCKET	1
7	10860	CONNECTOR, RECEPTACLE, 6 PIN	1
8	98132	CONNECTOR, PLUG, 2-SOCKET	3
9	98133	CONNECTOR, WEDGELOCK, 2-SOCKET	2
10	98170	CONNECTOR, RECEPTACLE, 2-PIN, TEE	1
11	98134	CONNECTOR, WEDGELOCK, 2-SOCKET	1

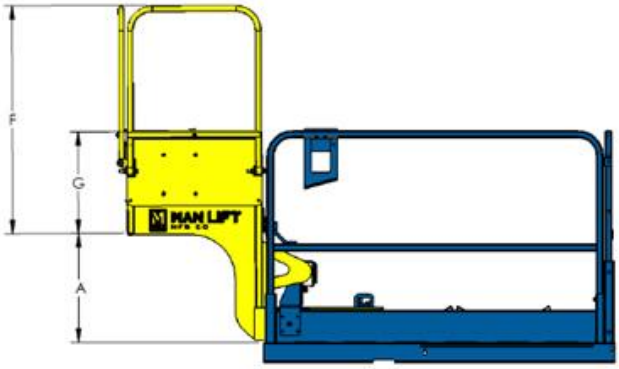
SPECIFICATIONS

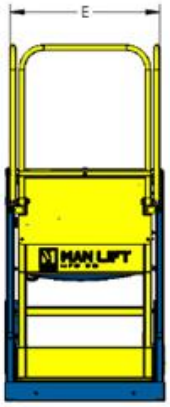
SHU-30

Specifications	US	Metric
A - Added Platform Height (raised)	20 in	0.51 m
B - Platform Width	21.5 in	0.55 m
C - Platform Length	24.8 in	0.63 m
D - Added Length	28.1 in	0.71 m
E - Outside Width	27.5 in	0.70 m
F - Guard Rail Height	39.25 in	1.00 m
G - Mid-Rail Height	18.4 in	0.47 m
Platform Side Load	100 lbs	45 kg
Attachment Platform Capacity	250 lbs	113 kg
Aerial Lift Capacity (GS-1530)	530 lbs	240 kg
Aerial Lift Capacity (GS-1930)	450 lbs	200 kg
Gross Weight (est.)	155 lbs	70.31 kg

Specifications Subject to Change Without Prior Notice







August 16, 2013

Subject: Attachment of the Man Lift Manufacturing SHU Platform.

Subject to the terms and conditions of this letter, Genie Industries Inc. approves the use of Genie Scissors when modified in accordance with Man Lift Manufacturing (MLM) requirements for installation and use of the SHU platform. The machine with the SHU attachment must be used in accordance with the instructions in the Genie Scissor Operator's Manual and MLM SHU Manual.

Warning:
Failure to comply with all restrictions, instructions and warnings contained in this letter, the Genie Scissor Lift Operators Manual, the Man Lift SHU Operator's manual(s) and decals and the applicable installation, safety or owner's manual could result in death or serious injury.

Application Description:
This applies only to SHU – vertical access platform attachment, a device manufactured by Man Lift Manufacturing and is only applicable to the Genie models listed on the installation instructions provided by Man Lift Manufacturing.

Owner/Employer/User/Operator Requirements:
1) No modification to the Genie equipment, or use of it outside the proposed application, is permitted outside the approval criteria contained hereinafter.
2) A copy of this letter must accompany the operators manual at all times in the weather resistant storage compartment located on the equipment at the job-site where this modification/application is approved and authorized by the user/employer.
3) Operators must be trained and qualified how to safely operate the modified equipment, or use it in the proposed application, and be familiar with the specific model of Genie equipment as follows:
   a) Be familiar, and comply, with the equipment operating and safety manuals.
   b) Understand all control functions, decals and warnings.
   c) Be aware of and understand all safety devices specific to the equipment being used.
   d) Be instructed regarding the specific hazards associated with using the Genie equipment, in its modified state, or in the proposed application, and utilize all means, including those provided by the user/employer, to avoid them.
4) The user/employer and the operator shall comply with all applicable jobsite, local, state, provincial, or federal rules, regulations, and standards related to the use of the equipment and its modification.
5) The Genie equipment must be in proper working condition and configuration.

Additional Requirements:
Installation and use of the SHU must comply with requirements provided by Man Lift Manufacturing.

In consideration for Genie's authorization herein, the equipment owner hereby agrees to indemnify and hold harmless Genie Industries Inc. and its parent and affiliated companies against any and all liability, claims, suits, losses, costs and legal fees caused by, arising out of, or resulting from the approved modification/application of the Genie equipment; any negligent act in the operation of the equipment by the owner, user and/or operator; the failure to comply with the criteria set forth in this letter related to the modification/application; the design, manufacture and installation of any modification; the safety rules and operating instructions in the Operator's Manual; the design and placement of any safety decals; the operation of the equipment by the owner, user and/or operator; and any negligent act or omission related to the equipment, its use or its modification.

BY PROCEEDING WITH THE MODIFICATION/APPLICATION AUTHORIZED HEREIN, YOU AGREE TO THE CONTENTS OF THIS LETTER AND ITS CONDITIONS. IF YOU DO NOT AGREE, DO NOT PROCEED WITH THE PROPOSED MODIFICATION/APPLICATION.